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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,958	01/28/2004	Phillip L. Fuson	014607.000005	1957	
	7590 01/18/200' VAN ALLEN PLLC F	EXAMINER			
430 DAVIS DR	IVE	HEINRICH, SAMUEL M			
SUITE 500 MORRISVILLE, NC 27560			ART UNIT	PAPER NUMBER	
		1725			
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MON	NTHS	01/18/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
		10/707,958	FUSON, PHILLIP	L.		
Off	fice Action Summary	Examiner	Art Unit			
		Samuel M. Heinrich	1725			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVE - Extensions of t after SIX (6) M - If NO period fo - Failure to reply Any reply recei	NED STATUTORY PERIOD FOR REPLY R IS LONGER, FROM THE MAILING DA ime may be available under the provisions of 37 CFR 1.13 ONTHS from the mailing date of this communication, reply is specified above, the maximum statutory period w within the set or extended period for reply will, by statute, ved by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be the strill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	N. imely filed the mailing date of this condition (25 U.S.C. § 133).			
Status						
2a)☐ This a 3)☐ Since	nsive to communication(s) filed on ction is FINAL . 2b) This this application is in condition for allowan in accordance with the practice under <i>E</i>	action is non-final. ice except for formal matters, p		e merits is		
Disposition of (Claims					
4a) Of 5) ☐ Claim(6) ☑ Claim(7) ☐ Claim(s) 1-4 and 6-15 is/are pending in the app the above claim(s) is/are withdraw s) is/are allowed. s) 1-4 and 6-15 is/are rejected. s) is/are objected to. s) are subject to restriction and/or	n from consideration.				
Application Par	pers					
10)⊠ The dra Applica Replac	ecification is objected to by the Examiner awing(s) filed on 28 January 2004 is/are: ont may not request that any objection to the cement drawing sheet(s) including the correction to the correction of the cement drawing sheet(s) including the correction of the certain or declaration is objected to by the Example 2015.	a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. So on is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CF	FR 1.121(d).		
Priority under 3	5 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice of Draft 3) Information Di	erences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948) sclosure Statement(s) (PTO/SB/08) lail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 7, 10-12, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,770,844 to Morita in view of USPN 5,841,089 to Martinenas and USPN 6,380,505 to Stoops et al. Morita shows (Figure 7) laser apparatus comprising plural energy beams disposable relative to a single work piece. Martinenas and Stoops et al show welding apparatus with work piece housings comprising first and second parts which are pivotably coupled. The use of plural energy beams in a pivotably coupled housing would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because plural beams provides rapid application of energy to a work piece and the pivotably coupled housings for tubular work pieces are very well known in the tube welding art. Martinenas and Stoops et al show work piece support fixture elements. Martinenas shows a housing which forms a seal around the work. Stoops et al show, e.g., Figure 5, a first and second operating lever which hold the housing in position. Morita discloses fiber optic cable.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,770,844 to Morita in view of USPN 5,841,089 to Martinenas and USPN 6,380,505 to Stoops et al as applied to claim 1 above, and further in view of USPN

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3,622,743 to Muncheryan. Muncheryan shows a lens and describes a switching device and the use of either lens or switch would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because they provide known controlled delivery of energy.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,770,844 to Morita in view of USPN 5,841,089 to Martinenas and USPN 6,380,505 to Stoops et al as applied to claim 1 above, and further in view of USPN 4,953,292 to Tobey. Tobey shows first tooling supported by a first housing and second tooling supported by a second housing wherein the first and second housings couple together. Arrangement of first and second laser elements into first and second housings would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because Tobey shows arrayed tooling in first and second housing parts.

Claims 8 and 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,770,844 to Morita in view of USPN 5,841,089 to Martinenas and USPN 6,380,505 to Stoops et al as applied to claim 1 above, and further in view of JP356047756A. Centering pins are well known as described by JP356047756A and the use thereof in an annular pipe clamp would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because pins provide efficient work support for centering piping.

Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,770,844 to Morita in view of USPN 5,841,089 to Martinenas and USPN

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6,380,505 to Stoops et al as applied to claim 7 above, and further in view of USPN 5,869,801 to Paton et al. Adaptation of tooling for operation in space is well known as disclosed by Paton et al and application thereof to the instant claimed device to process material would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because transport of parts and assembly in space provides efficient construction.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Samuel M Heinrich Primary Examiner Art Unit 1725

Samuel M. Henrich